## **ABSTRACT**

A hot-rolled wire rod:

the wire rod being a hot-rolled wire rod 5.0 mm or more in diameter, containing in mass

C: 0.6 to 1.0%,

Si: 0.1 to 1.5%,

Mn: 0.3 to 1.0%,

P: 0.02% or less, and

S: 0.02% or less;

not less than 90% of the wire rod in area percentage being composed of a pearlite structure; and the mechanical properties of the wire rod 4 m in length satisfying the following expressions (1) to (4),

(1)  $TS*-30 \le Average value of tensile strength (<math>TS_{AV}$  in MPa)  $\le TS*+30$ ,

where,  $TS^* = 400 \times \{[C] + ([Mn] + [Si])/5\} + 670$  and the elements in square brackets [ ] in the equality mean the contents of relevant elements in percentage,

- (2) Standard deviation of tensile strength (TS $\sigma$ )  $\leq$  30 MPa,
  - (3) Average value of reduction of area  $(RA_{AV}) > 35\%$ ,
- (4) Standard deviation of reduction of area (RA $\sigma$ )  $\leq 4\%$ .

A hot-rolled wire rod according to the present invention is incomparably excellent in wire drawability and brakes less frequently than a conventional wire rod even

when it is processed as hot-rolled with heat treatment such as patenting treatment omitted.